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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,896	01/16/2004	Richard J. Kapusniak	87532CPK	8474
7590 06/06/2005			EXAMINER	
Paul A. Leipold			SCHWARTZ, PAMELA R	
Patent Legal Sta	aff			
Eastman Kodak Company			. ART UNIT	PAPER NUMBER
343 State Street			1774	
Rochester, NY 14650-2201			DATE MAILED: 06/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summany	10/759,896	KAPUSNIAK ET AL.
Office Action Summary	Examiner	Art Unit
7. 444.000 0.475 4.4.	Pamela R. Schwartz	1774
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tily within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☑ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under Expression is the practice of the prac	s action is non-final. nce except for formal matters, pr	
Disposition of Claims		
 4) Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) 15 is/are withdrawn for 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-15 are subject to restriction and/or for the subject to restriction and subject to re	from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). sjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. Is have been received in Applicat Inity documents have been receiv In (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/6/04.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

Application/Control Number: 10/759,896

Art Unit: 1774

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-14, drawn to an ink jet recording element, classified in class 428, subclass 32.1.
 - II. Claim 15, drawn to a recording method, classified in class 347, subclass105.

The inventions are distinct, each from the other because of the following reasons: Inventions of Group I and of Group II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product can be used in a materially different method such as a method of writing with an ink pen. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

During a telephone conversation with Mr. Konkol on April 15, 2005 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-14.

Affirmation of this election must be made by applicant in replying to this Office action.

Claim 15 is withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-14 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-19 of copending Application No. 10/758,720. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications are directed to ink jet recording media including a layer containing an aluminosilicate material. Since the base layer of the instant application does not differ compositionally from the ink receptive layers of copending case and because it would have been obvious to one of ordinary skill in the art to include conventional additional layers, including ink receptive layers, base layers and overcoat layers.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

3. Claims 1-14 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-15 of copending Application No. 10/759,876. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications are directed to ink jet recording media including a layer containing an aluminosilicate material. Since the base layer of the instant application does not differ compositionally from the ink receptive layers of copending case and because it would have been obvious to one of ordinary skill in the art to include conventional additional layers, including ink receptive layers, base layers and overcoat layers.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 11 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. If the formula of the aluminosilicate is correctly set forth in claim 10, it is unclear how this structure may comprise organic groups as set forth in claim 11. Claim 11 appears to be inconsistent with the claim from which it depends.

5. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. (6,548,149) in view of Ohashi et al. (6,254,845). The primary reference discloses an ink jet recording material comprising an ink receiving layer on a substrate, the ink receiving layer comprising binder and pigments particles which may be an

aluminosilicate (see col. 6, lines 18-29). The particles have an amorphous structure and may be produced by subjecting a mixture containing aluminum alkoxide and silica alkoxide to hydrolysis. The particles have a ratio of alumina to silica of 1:4 to 4:1, a primary particle size of 3 to 40 nm, and a secondary particle size of 10 to 300 nm (see col. 9, line 44 to col. 10, line 45). The binder may be polyvinyl alcohol (see col. 10, lines 46-56). The ratio of binder to pigment is 10:2 to 10:6 (col. 11, lines 6-10). This is consistent with the instant limitations directed to the quantities of binder and pigment which may be present as recited by applicants' claims. The layer may contain a cationic resin to fix ink. The resin may contain quaternary ammonium groups (col. 11, lines 38-53). The recording material may comprise at least one additional ink receiving layer which may be between the previously described layer and the support (see col. 15, lines 15-25). However, the additional layer is not limited to this position and could form an outermost layer.

The substrate may have a thermoplastic surface (col. 7, lines 41-52). The amounts of each layer are given in g/m², however, from this disclosure, it would have been obvious to one of ordinary skill in the art to determine a proper thickness for the layer (col. 11, lines 55-67). The medium can have additional ink receptive layer, preferably under, but possibly over the layer ink receiving layer and the layer may have the same composition as the ink receiving layer (see col. 15, lines 15-26). There may be additional intermediate layers between the support and the ink receiving layer(s) (col. 17, line 28-47). Since the reference discloses that two or more additional ink absorbent layers, one of these will act as an overcoat layer (col. 19, lines 51-63). Finally, the ink

receiving layer is disclosed as porous in some of the preferred embodiments, the disclosure includes both porous and non-porous ink-receiving layers.

Ohashi et al. disclose spherical hollow aluminosilicate which appears to meet all of the limitations to be the aluminosilicate of the primary reference as well as all of the limitations to be the aluminosilicate as instantly claimed including the X-ray diffraction pattern. This method of formation is described as highly efficient and homogeneous, and yields desirable properties such as excellent water resistance and high specific surface area. The uses specifically disclosed by the reference include adsorbent, humidity adjustor, drug microcapsule and catalyst carrier (col. 1, lines 5-15 and the abstract). While the secondary reference doesn't mention use in ink receptive layers, it is well known in the ink jet recording art that inorganic oxides that are used as catalyst carriers are generally useful in the ink jet recording field as well (see for example, Greenwood et al. (6,596,250, col. 1, lines 14-19) and Watanabe et al. (6,632,489, col. 1, lines 19-21). Therefore, with respect to selection of a specific aluminosilicate pigment, it would have been obvious to one of ordinary skill in the ink jet recording art to look to the field of inorganic pigments used in a variety of uses, including as catalyst carriers, for a particular material. Since the material of the secondary reference meets all requirements of size and composition set forth by the primary reference and is disclosed as having a high specific surface area, a desired property of particles in ink receptive coatings, it would have been obvious to one of ordinary skill in the art to include the particular aluminosilicate of the secondary reference as the aluminosilicate of the primary reference.

While neither of the references set forth that the aluminosilicate comprises organic groups, when combined with a charged material such as the polymeric mordant, organic groups from the mordant will react with the aluminosilicate particles at some locations. Since the aluminosilicate is synthesized there should inherently be no iron atoms present.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pamela Schwartz whose telephone number is (571) 272-1528.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye, can be reached on (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRSchwartz May 28, 2005

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